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INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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CENTRIFUGAL WATER FUMP MANUFACTURED HY SUMY HYDRAULIC PUMP PLANT

- 1. The Sumy (N 50-55, E 34-47) Hydraulic Pump Plant manufactured a centrifugal water pump referred to as "type 26". The approximate dimensions and weight without motor of the pump were as follows: length, 1.50 meters; and weight, 1.20 meters; height, 1.50 meters; and weight, 1500 kilograms. The pump was driven by an electric motor was constructed as detailed in a service of the service of the service wantioned sketch:
- 2. Pump housing. The upper (A) and lower (B) pump housing were of cast iron and were bolted together by gasketed flanges; the gaskets were made of a special metal called Paranit (sic). The water inlet and outlet were located on opposite sides of the pump housing, with one placed slightly higher than the other so that a line drawn between the two would be somewhat oblique in relation to the rotor shaft.
- 3. Reter shaft. The dismeter of the mackined steel rotor shaft (1) was regular, except that it was smaller where the bearings were attached, and larger where the rotors were attached. Lock pins secured the two and larger where the rotors were attached. Lock pins secured the two rotors (10) to the shaft spline (2). Corresponding lock muts (3) were secured by orising them into place with a cold chisel. The two millimeter thick, soft iron, retaining rings (4) had a short flexible tang which was bent into the spline and secured with a lock mut. The retaining sleeves (5) and the bearings, (13 and 6) with one and two sets of bearings respectively were also fixed to the shaft with lock pins and nuts. The retaining sleeves were indented and fitted with lubricating rings (14) which lubricated the bearings by dragging up grease from a grease pan underneath. The rotor shaft was protected from wear by cast iron (sic) bushings, 35 millimeters in length, fixed at the friction points of the shaft between the retaining collars (7) and the baffle plates (9).
 - Collar plates. Two steel collar plates (8) were fitted to the body of the pump and acted as a stop against the pressure of the retaining collars (7) which compressed, between themselves and the collar plates, a stuffing box of asbestos rope (15) wrapped around the shaft, in order to prevent the passage of air or water. The cast iron retaining collars (7) were made in two pieces and bolted together so they could be easily taken spart and reassembled.
 - 5. Rotors. A baffle plate (9) was fixed to the pump shaft on each side of the rotor assembly. These, together with the dividing plate (11) delimited the intake and expalsion compartments. The intake and expulsion rotors (10) were of cast iron, hollow, with helicoidal vanes, one curved to the left, the other to the right. Between the two rotors was a cast iron dividing plate (11) which separated the intake and expulsion compartments. This was fixed to the pump housing by means of a ridge along its circumference which fitted into a slot in the housing.

S-E-C-R-E-T

25X1

25X1

6. Water Chamber. The cast iron, cylindrical, stationary, water chamber (12)

was fixed to the pump housing. It was radially drilled to distribute

water around its circumference. The water was delivered by means of a

water around its circumference. In this manner, air could

pipe independently of the action of the pump. In this manner, air could

not enter in the event of breakage or want of the asbestos rope (15) of

the stuffing box.

- 3 -

7. Pump Action. The action of the pump was described as follows: Water was pulled in by the intake rotor which drove it through an orifice into the chamber formed by the upper housing. It was then forced through an orifice onto the drive-off rotor which expelled the water, thus completing the cycle of the pump operation.

